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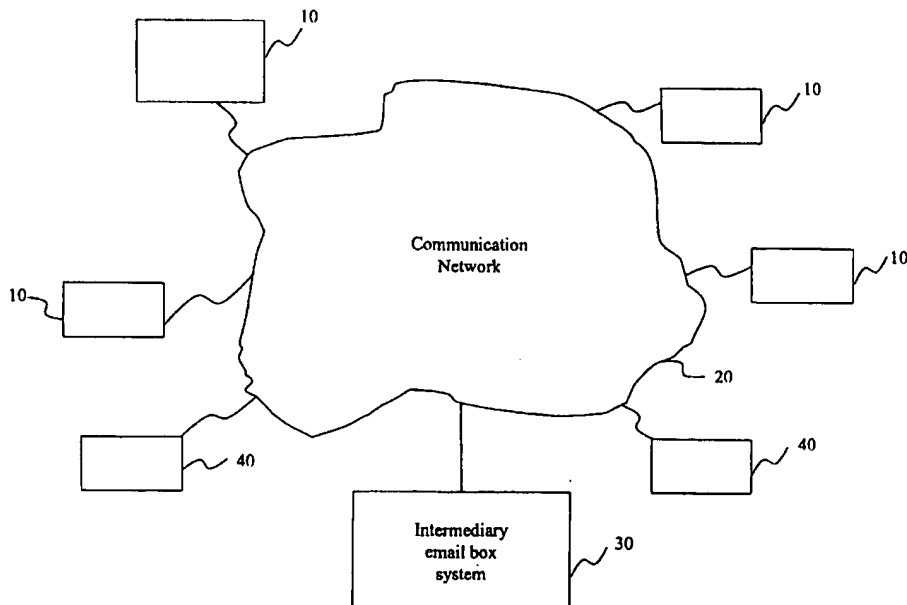
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(54) Title: SYSTEM AND METHOD FOR GRANTING DEPOSIT-CONTINGENT E-MAILING RIGHTS



(57) Abstract: An Email guarantee deposit method, system, and program product, with the method comprising in one embodiment, the steps of: receiving from a sender a request to send to a recipient an Email; receiving a deposit or an authorization to obtain a deposit of something of value; sending the Email to the recipient only if a deposit of authorization for a deposit is received; determining if the recipient has accepted the deposit; and if the recipient has accepted the deposit, then facilitating the disposal of the deposit. In an important alternate embodiment, a deposit can be required before an Email with an auditory or visual enhancement is provided, or before routing to a designated type of device occurs.



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## SYSTEM AND METHOD FOR GRANTING DEPOSIT-CONTINGENT E-MAILING RIGHTS

### Cross-Reference to Related Applications

[0001] This application claims the benefit of priority under 35 U.S.C. § 119(e) of provisional application serial number 60/244, 609 entitled "MyStealthMail" filed on November 1, 2000, the disclosure of which is hereby incorporated by reference in its entirety.

### Field of the Invention

[0002] The present invention relates generally to the field of network and Internet communications, and more particularly to the field of automatic Email control.

### Background of the Invention

[0003] Jupiter Media Metrix predicts that the average Email address will receive 40 times as many Emails as it is receiving now by the year 2005. Even at current levels, consumers show a concern about protecting their Email inboxes against unwanted Email (hereafter referred to as "spam"). At the same time consumers must constantly relinquish their Email address to third parties in the course of availing themselves of the many products and services that are offered on the Web. Individuals also find it necessary or useful to communicate with many private individuals by Email temporarily, yet do not necessarily wish to grant these individuals long-term access to their Email inbox. But reviewing and discarding commercial Emails takes time and effort and many individuals resent their inability to shield themselves against this unwanted intrusion.

[0004] Many people like or need to be immediately notified when Emails come in, and enable features in their Email application that provide them with visual or auditory signals to alert them of an incoming Email. To those individuals the unwanted interruption of unwanted Email is even more bothersome. In addition, wireless devices have limited screen space, lower memory storage and longer download times, which all work to increase the productivity costs of unwanted Email.

[0005] A key problem which results from spam is that people are reluctant to publish their Email addresses in publicly available directories. Indeed, individuals who list their Email address in a public directory are likely to receive many additional unwanted commercial Emails. Spammers can simply retrieve their Email address from these public listings and use them to send commercial Email messages. Consumers who evade these spammers by declining to list their Email address in a public directory, also make their Email address unavailable to those who do not have their Email address, but might have a legitimate interest in contacting them. Contacting people by telephone is not always possible, because many numbers are not listed or

otherwise not available. Even when it is possible, contacting people by phone to ask them for their Email address is inconvenient.

[0006] None of the current technologies and methods which allow consumers to protect themselves against unwanted Email, hold the promise of combating spam effectively enough to allow consumers to publish their Email addresses publicly. Such technologies described as follows:

#### Opt-in and Unsubscription

[0007] Some businesses especially those that regularly send third party advertisements by Email to a group of opt-in Email subscribers allow these subscribers to opt-out by replying to an Email or clicking on a link in the Email. However many companies do not. In addition, of the companies that do

- many reserve the right to change their privacy policies, and
- some release their Email addresses to third parties in the course of conducting business, even if their privacy policy says that will not do so.

And:

- Most privacy policies allow for Email addresses to be disclosed to third parties or to be sold or exchanged with business partners.
- Even a binding promise not to sell or disclose an Email address to a third party does not survive company bankruptcy.
- Many companies have insufficient safeguards against unauthorized or accidental disclosure of their consumer's Email addresses.

[0008] Most importantly, even if a majority of companies voluntarily refrain from sending volume Emails, and take proper safeguards against unauthorized disclosure, advances in technology allow even a small group of spammers to send many hundreds of millions of unwanted Emails and to sell Email addresses to other spammers.

[0009] Legislation which would mandate that companies abide by the privacy policies that they publish may be passed in the future, but no legislation that generally prohibits sending Email to individuals who have not expressly given permission to receive such Email is expected due to first amendment concerns. Also any legislation would be difficult to enforce on the Internet due to its global reach and the ability to send Email messages from virtually anywhere outside the United States.

[0010] Hotmail and other Email providers allow consumers to "block senders" i.e. to block Emails coming from a particular Email address / outbox. However, senders can change their outgoing Email address at will so that this mechanism is not effective.

[0011] Some providers also refer Emails that are sent to multiple recipients on the same network to a separate Bulk Email folder. The problems with this mechanism are

- Some Emails that are sent to multiple recipients are either private Emails that are sent by individuals to multiple recipients, or wanted newsletters or bulk Emails sent by businesses. Therefore, the Email recipient must still periodically review this folder as well for wanted Emails.
- Technology exists currently, and is likely to be further developed, that allows senders to send Emails to many recipients in an reiterative process which simulates individual mailings. While there may be other technologies to counteract this, it is likely that the technologies of spammers and those that seek to confound them will continue to leapfrog each other. Few, if any, analysts predict that the outcome of this technological race will be spam-free Email inboxes.

[0012] Yet another method of protecting consumers against unwanted Email is the blacklisting of senders and their IP addresses. Programs exist that block Emails from blacklisted senders. Internet service providers such as Abovenet and UUnet exercise pressure on their business consumers to adopt strict opt-in Email policies. But as noted above, spammers can switch internet service providers and/or Email addresses to evade detection and blocking of their Emails.

[0013] Yet another method of protecting consumers against unwanted Email is for the content of the Emails to be screened by artificial intelligence based software programs. Depending on the content and which words or phrases are found in the Email, Emails are then either blocked or routed to less important folders which the user is presumed to check less frequently. The problems with this method are

- Spammers can easily avoid the use of phrases and words that are likely to trigger a bloc or a filtering criterion against spam. Conversely, if the Email rules and filters that apply to the content are too restrictive, some desired Email which the recipient would have liked to receive will get blocked or filtered out. (This is the reason that some of the filtering programs allow the user to review the Email that has been filtered or blocked – however, if the user needs to perform a review, this defeats the very purpose of the filtering software.)
- It takes time and effort for the individual user to prioritize incoming Emails into multiple folders based on such rules.

## SUMMARY OF THE INVENTION

[0014] Briefly, the present invention comprises in one embodiment, an Email guarantee deposit method, comprising the steps of: receiving from a sender a request to send to a recipient an Email; receiving a deposit or an authorization to obtain a deposit of something of value; sending the Email to the recipient only if a deposit of authorization for a deposit is received; determining if the recipient has accepted the deposit; and if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

[0015] In a further aspect of the present invention, the facilitating step includes the step of exercising the authorization to obtain the deposit.

[0016] In a further aspect of the present invention, the step is provided of maintaining a directory of Email addresses; and obtaining an Email address for the recipient from the directory.

[0017] In a further aspect of the present invention, the steps are provided of: before the sending step, correlating the deposit with a threshold value set by the recipient; and only performing the sending step if the deposit equals or exceeds the threshold value set by the recipient.

[0018] In a further embodiment of the present invention, an Email address access method is provided, comprising the steps of: receiving from a sender a request to send to a recipient an Email; receiving a payment or an authorization to obtain a deposit of something of value; determining if the deposit equals or exceeds a threshold value; and if the payment equals or exceeds the threshold payment, then sending the Email to the recipient.

[0019] In a further aspect of the present invention, the step is provided of sending at least part of the threshold payment to the recipient.

[0020] In a further embodiment of the present invention, a program product is provided for an Email guarantee deposit method, comprising machine-readable program code for causing a machine to perform the following method steps: receiving from a sender a request to send to a recipient an Email; receiving a deposit or an authorization to obtain a deposit of something of value; sending the Email to the recipient only if a deposit of authorization for a deposit is received; determining if the recipient has activated the deposit; and if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

[0021] In a further embodiment of the present invention, an Email guarantee deposit system is provided, comprising: a component for receiving from a sender a request to send to a recipient an Email; a component for receiving a deposit or an authorization to obtain a deposit of something of value; a component for sending the Email to the recipient only if a deposit of authorization for a deposit is received; a component for determining if the recipient has accepted the deposit; and

a component for, if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

[0022] In a further embodiment of the present invention, an Email guarantee deposit method is provided, comprising the steps of: receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other emphasis or to route the Email to designated type of device; receiving a deposit or an authorization to obtain a deposit of something of value; sending the Email to the recipient with such a visual or auditory signal or other emphasis or routing the Email to the designated type of device only if a deposit of authorization for a deposit is received; determining if the recipient has accepted the deposit; and if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

[0023] In a further embodiment of the present invention, an Email address access method is provided, comprising the steps of: receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other emphasis or routed to a designated type of device; receiving a payment or an authorization to obtain a deposit of something of value; determining if the deposit equals or exceeds a threshold value; and if the payment equals or exceeds the threshold payment, then sending the Email with said signal or emphasis to the recipient.

[0024] In a further embodiment of the present invention, a program product is provided for an Email guarantee deposit method, comprising machine-readable program code for causing a machine to perform the following method steps: receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other emphasis or routed to a designated type of device; receiving a deposit or an authorization to obtain a deposit of something of value; sending the Email with said signal or emphasis to the recipient only if the deposit or authorization for the deposit is received; determining if the recipient has activated the deposit; and if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

[0025] In a further embodiment of the present invention, an Email guarantee deposit system is provided, comprising: a component for receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other visual emphasis or routing to a designated type of device; a component for receiving a deposit or an authorization to obtain a deposit of something of value; a component for sending the Email with said visual or auditory signal or emphasis to the recipient or routing the Email to the designated device; a component for determining if the recipient has accepted the deposit; and a component for, if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

## BRIEF DESCRIPTION OF THE DRAWINGS

[0026] Fig. 1 is a schematic block diagram of an overall context for the present invention.

[0027] Fig. 2 is a flowchart of a preferred embodiment of the present invention.

[0028] Fig. 3 is a flowchart of a preferred embodiment of another aspect of the present invention.

[0029] Fig. 4 is a flowchart of a method for using a preferred embodiment of the directory invention.

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0030] The present invention solves the foregoing problems, in one embodiment, by allowing users/potential recipients to grant others the right to send the users Emails on the condition that any sender of an Email pays a fee in the event that the user/recipient considers the Email to be an unwanted intrusion. This fee will deter most senders of unwanted commercial Emails ("spam").

[0031] Users who wish to grant others access to their Email inbox, publish a permanent "intermediary" Email address which is different from their primary Email inbox. The term "intermediary Email box" is intended to be construed broadly to include any kind of conceivable device or receiving area, with or without storage, that processes an incoming message and rejects the message or rejects a request for additional mailing rights if the message does not come with a requisite deposit.

[0032] Alternatively, instead of publishing an intermediary address, users could simply publish a link at a website through which others could have access to that intermediary Email address by clicking on it and typing the text of the Email into a pre-set form.

[0033] Emails received at the intermediary inbox are forwarded to the recipient's primary Email address only if the sender insures the mailing with a deposit or an authorization for a deposit of something of value. There may be a threshold pre-set by the user/recipient or the system and published with his/her Email address, which must be met. The recipient can waive or accept payment of this deposit fee at his option, or the deposit can be made automatically.

[0034] The directory aspect of the present invention can also be setup for the explicit purpose of inviting senders to pay for access to the user's Email inbox. Note that in a preferred embodiment, the user's primary Email address is never disclosed during the process.

[0035] Another embodiment of the present invention allows the mailing to a transit Email address even without a guarantee deposit but only for the purpose of requesting mailing rights and subject to strong restrictions regarding the amount of text in the message: The system could be set to allow the requestor to only input his name, the standard request for mailing rights itself

and, possibly, a very limited number of words (in one embodiment, not more than 3 to 5 words in a confined space) that will help the recipient recognize the sender in the event the recipient does not recognize the sender by his name alone (for instance, "Schwab investment advisor met yesterday" would let the recipient know that the person requesting the mailing rights is the Schwab Corporation Investment Advisor whom he/she met at a party on October 30 and to whom he/she had expressed an interest in learning more about potential investments.) Such a request would be made in a pre-set format. This mechanism would allow non-spammers to make such requests for mailing rights while restricting the ability of spammers to use the directory to send commercial messages.

[0036] Another way of implementing the invention is to allow users to specify that they only wish to receive Emails without a deposit from a certain list of pre-determined Email addresses. By default, Emails that arrive from any other Email address are sent back to the sender with a notice that they must be insured in the above described manner before they will be relayed to the primary Email inbox of the recipient. If the sender then insures the Email, the recipient could have the additional option of adding the senders' Email address to his/her list of approved Email addresses from which he/she can receive Emails even if they are not insured. In this manner of using the invention, a user would be able to freely and widely publish his primary Email address rather than a secondary Email address without fear of receiving excessive spam.

[0037] Yet another implementation of the invention is to make other or additional mailing rights contingent on the submission of a deposit. Separately or additionally, deposits would be required to send an Email that is not only placed in the Email inbox of a recipient but that alerts the recipient of a particularly urgent communication at the time that the Email arrives in the Inbox with an auditory or visual signal. Alternatively, Emails that are insured in this manner with a special deposit could be visually emphasized or ranked higher in a particular Email inbox so as to be read first and be more likely to command the attention of the recipient. Similarly, to the other implementation methods above, the recipient would have the option of accepting the deposit in the event that he or she deems the interruption or the additional emphasis inappropriate, intrusive or unjustified. A deposit could also be required to route an Email to the handheld personal digital assistant or to the cellular phone of the recipient instead of to the regular Email inbox which he normally accesses through his computer. To route an Email to a hand-held device such as a PDA or a Cell phone or to add auditory or visual interruption signals, a particular recipient would presumably require higher deposits than those that are required for the mailing of a regular Email that goes to the standard Email inbox. Note that such additional contingent mailing rights do not have to be granted indiscriminately to anyone willing to make



the required deposit, but could be made available selectively to certain groups of individuals, such as those working at a particular company.

[0038] Referring now to Fig. 1, there is shown a schematic block diagram illustrating the high level components of an overall system configuration for implementing a preferred embodiment of the present invention. A plurality of client computer systems 10 are connected through a communications network 20. Each of the plurality of the client computer systems 10 could include portions of the processing software to be discussed below. Each of a plurality of the client computer systems 10 is connected through the communications network 20 to one or more processors 30 that contain the processing software to be described to implement the Email box system of the present invention. It is contemplated that there be a one or more data bases for storing communications information about the various clients 10 may be maintained at one or more of the processors 30. Additionally, it is contemplated that one or more vendor computers 40 will be connected to the communications network 20..

[0039] In a preferred embodiment, the communications network 20 is the Internet. The term "Internet" is defined to mean a collection of interconnected or disconnected networks (public and/or private) that are linked together by a set of standard protocols (such as TCP/IP, for example) to form a global, distributed network. While this term is intended to refer to what is now commonly known as the Internet, it is also intended to encompass variations which may be made in the future, including changes and additions to existing standard protocols.

[0040] However, the communications network 20 can also include a wide area network (WAN), an internet network, a public tariff telephone network or a private value added network (VAN). Alternatively, the communication network can be implemented using any combination of these different kinds of communication networks. It will be appreciated that many other similar configurations are within the abilities of one skilled in the art and all of these configurations could be used with the method of the present invention. Furthermore, it should be recognized that the computer system and network disclosed herein can be programmed and configured in a variety of different manners by one skilled in the art, to implement the method steps discussed further herein.

[0041] The client blocks 10 in Fig. 1 are conveniently configured as computers which may communicate with the communications network 20. However, the present invention is not limited to the use of computers. In this regard, a variety of convenient mechanisms can be used to implement the client 10, including hand held devices. More generally, a client can be a PC, telephone, PDA, appliance, etc. equipped with an industry-standard (HTTP, FTP, WAP, HTML, XML, WML, cHTML, HDML, etc.) browser or other communications protocol having wired (Ethernet, Token Ring, etc.) or wireless (cellular, Bluetooth, IEEE 802.11b, etc.) access via

networking (UPnP, TCP/IP, Novell, NetBUI, Appletalk, etc.) to nearby and/or remote peripherals, devices, appliances, etc. The preferred embodiment will focus upon a device that utilizes the TCP/IP (transfer control protocol/Internet protocol) for communication between clients or between clients and servers, each client device having an internal TCP/IP/hardware protocol stack, where the "hardware" portion of the protocol stack could be Ethernet, Token Ring, Bluetooth, IEEE 802.11b, or whatever software protocol is needed to facilitate the transfer of IP packets over a local area network.

[0042] If the blocks 10 are implemented as computers, they would typically include customary components of a computer system including a CPU, a display, a keyboard and/or other I/O device, a network card or other communications interface, RAM or ROM or other memory, as well as storage such as disks and/or CDROM drives. (However, the client may be other browser equipped or communication program equipped devices as described above.) The monitor may be any conventional off-the-shelf monitor. The preferred operating system is Windows 2000 or XP. As noted in the preferred embodiment, within each personal computer, an internet browser such as Netscape or Internet Explorer is stored for use. Also in the preferred embodiment, the browser is linked to network 20 via the TCP/IP protocol stack.

[0043] Likewise, the blocks 40 representing the vendors and others wishing to communicate with the clients 10, will also typically be implemented by means of a computer, but could be implemented by hand held devices or other convenient devices.

[0044] The processor 30 is representative only, and may be comprised of a single processor. Alternatively, the functionality of the processing system could be implemented with several processor systems that are connected over a network. It is also possible to distribute the functionality of the processing system over a multitude of sites which are suitably connected together using conventional networking or inter-networking techniques.

[0045] In a preferred embodiment, the Email system of the present invention may be provided by a web service which includes the processor 30. The term "web service" is intended to refer to a service that is provided (at least in part) by a web server. But a web service is a broader concept than a web server. In this regard, a web server is a program that, utilizing the client/server model and the World Wide Web Hypertext Transfer Protocol, serves files that form Web pages to web users whose computers contain HTTP clients that forward their requests. Every computer on the Internet that contains a Web site must have a Web server program. The most popular web servers currently are Microsoft's Internet Information Server which comes with the Windows NT server, Netscape Fast Track and Enterprise servers, and Apache, a Web server popular on UNIX-based operating systems (but available for Windows as well). Web servers often come as part of a larger package of Internet and Intranet-related programs for

serving e-mail, downloading requests for File Transfer Protocol files, and building and publishing Web pages. It is this larger package which is referred to as the web service.

[0046] Typically a web service will include a Web site which corresponds to a particular Internet domain name, such as "Landesmann.com", and includes the web content associated with one or more particular operations. The term "Web site" is generally intended to encompass both (i) the hardware/software server components that serve informational content over the network, and (ii) the "back end" hardware/software components, including any non-standard or specialized components, that interact with the server components to perform services for the Web site user.

[0047] Referring now to Fig. 2, an embodiment for one aspect of the present invention is illustrated.

[0048] The process may be initiated by a sender obtaining an Email box address for a particular user/recipient. This might be a secondary intermediary Email address of the recipient which the recipient has made available directly or indirectly to the sender, and which is different from the recipient's primary Email address. The sender sends the Email to this address. This is illustrated by block 200. In block 202, the Email box system receives this Email from the sender and instead of placing or forwarding the Email into the inbox of the recipient, sends in response an Email requesting a deposit or an authorization for a deposit. Typically, this deposit will be for a pre-set threshold amount.

[0049] In block 204, the sender sends an Email with a deposit or a deposit authorization in a preset format. Note that the term "Email" is intended to encompass any type of network communication. The sender would send his Email to the intermediary Email box at the processor 30, which effectively acts as a bridge or triage and transit station for the Email, and operates to relay the Email to the sender under certain conditions, but not under other conditions. Note that after the sender has the correct intermediary Email box address and the correct threshold amount and any pre-set format for the communication, blocks 200 and 202 can be bypassed when the sender wishes to send another Email to the same recipient.

[0050] In block 210, the intermediary Email box receives the Email from the sender. This block 210 includes one or more subsidiary steps. As noted, the system is set up with a pre-set threshold deposit requirement. This pre-set threshold deposit requirement may be a standard deposit value set by the system. Alternatively, the pre-set deposit value could be set by the user/recipient. In the situation where the user/recipient has pre-set the threshold value for the deposit, in block 220 the user's pre-set threshold must be obtained. Typically, the user's pre-set threshold value would be associated with the user's intermediary Email address. Alternatively,

the user's intermediary Email address could be used as a reference to access this pre-set threshold value.

[0051] Accordingly, the block 210 would determine whether the deposit or the authorization for the deposit is for a value which equals or exceeds the threshold value which has been pre-set by the user/recipient or the system. Another optional step could be performed in block 210 if the intermediary Email box is provided with an expiration date. In this instance, the date of the sender's Email could be compared with the expiration date of the intermediary Email box, and the process would continue only if the sender's Email date is prior to the expiration date of the intermediary Email box.

[0052] Note that block 210 could also include a subsidiary step of comparing the sender's Email address to a list of Email addresses that the recipient will accept without the payment of a deposit. Accordingly, the deposit process can be bypassed for a selected set of senders designated by the recipient. The populating of such a list of senders could be accomplished during the setup of the intermediary Email box by the recipient, and may also be performed on an ad hoc basis as the recipient determines that this privilege should be extended to a new sender.

[0053] Senders who frequently send Email to intermediary Email boxes could keep a copy of the form that is sent by the intermediary web site on their hard drives or in other convenient storage so that this form could be pre-completed with payment information (credit card or micro payment account, for example). This pre-completed payment form would speed-up the process of sending of Emails. Alternatively, the sender's Email outbox could be linked to an account of the sender held by the company administering the intermediary Email box service. This account could be automatically debited whenever the sender makes a request to send an Email to a recipient through this intermediary Email box.

[0054] In block 220, the deposit or an authorization for a deposit of something of value, typically money, is received at the intermediary Email site. The deposit could be by means of a credit card number or a debit card number, for example. Note that the recitation "intermediary" Email box in this context is also intended to encompass other designated locations where the deposit or the authorization for the deposit might be sent, with a verification message sent to the intermediary Email box.

[0055] In block 230, if it has been determined that the deposit or the authorization for the deposit does not equal or exceed the pre-set threshold or if the deposit or authorization for deposit cannot be verified, then a message is sent to the sender informing him/her of the deficiency in his/her deposit and requesting a resubmittal of a new deposit.

[0056] Alternatively, if the deposit or authorization for the deposit has been verified and does equal or exceed any optional pre-set threshold value, then in block 240 the Email is sent to the primary inbox of the recipient.

[0057] In the event that other mailing rights are authorized as the result of the deposit, such as routing the Email to the personal digital assistant or cell phone of the recipient or alerting the recipient with a visual or auditory signal, the particular action that has been authorized as a result of the deposit is then taken in block 240..

[0058] In block 250, the recipient opens his Email. In block 260, the recipient decides whether to accept or decline the guaranteed deposit payment. In order to implement this step, by way of example the forwarded Email could be provided with web content to display buttons labeled "Accept" and "Decline," with hyperlinks to appropriate network locations.

[0059] Referring to block 270, if the user clicks the "Accept" button, then the deposit may be debited. Note that the debiting of the deposit may be made to the user/recipient's account, or to any other selected account. By way of example, the debit could be made to a charity, for example.

[0060] Alternatively, if the user/recipient clicks the button "Decline", then in block 280 the sender's deposit or authorization for deposit may be canceled.

[0061] In block 290, the system automatically sends a message to the sender notifying the sender of the recipient's acceptance or cancellation decision for the deposit.

[0062] It should be noted that a default decision may be set by the user for deposits in block 260. In this regard, the default could be set to automatically accept all deposits. Alternatively, the default could be set to automatically decline all deposits.

[0063] Referring now to Fig. 3, there is shown a preferred embodiment for a setup of the contingent mailing rights by the recipient. In this embodiment, the directory system is operated by one or more servers on one or more web sites. A user would access the web site by inputting the appropriate Internet address into the user's browser. The user would then log on to the web site in block 300. In block 310, the user enters the user's primary Email address. In the event that the user's primary Email address has previously been stored in the data base for the web site, the field for the user's primary Email address may be pre-populated with his/her primary address. Typically, this might occur where the user wished to perform some management function with respect to the settings for his intermediate Email box.

[0064] Referring now to block 320, the user selects the amount of the deposit to be requested from potential senders. In one aspect of the implementation for block 320, the user could provide different deposit requirements for different senders, or different types of senders. For such an implementation, block 320 would provide web content for receiving input from the user

for a plurality of deposit threshold values, and the senders or type of senders that those different threshold values would apply to. For example, the user may require a different higher deposit before an auditory or visual enhancements may be activated by a sender. The user may set an even higher deposit threshold to be paid before routing to the user's cell phone or PDA may be activated by a sender.

[0065] Note that if an enhanced version of the system is set up for the user/recipient, wherein different levels of threshold deposit values have been set for different senders or different types of senders, then when an Email from a sender is received by the intermediary Email box system, then in block 202 the intermediary Email box system determines the appropriate threshold deposit level for that particular sender or class of senders by means of comparison to a table of senders or via another convenient method, and then sends the appropriate threshold deposit level information back to the sender. The appropriate threshold deposit level is then used in block 210 to determine whether the deposit amount or authorization for the deposit sent by the sender equals or exceeds this threshold deposit value.

[0066] In block 340, the user inputs a description of himself/herself and the user's background. This information may be used for the purpose of distinguishing between several people with the same or similar names, so that a user of the Email will not send an Email to a person other than the intended recipient. At the option of the user/recipient, this information could also be used for other market-driven purposes.

[0067] In block 350, the user may be prompted by web content on his browser to enter a list of exempted senders, who would be exempted from the deposit requirements. In this block or an earlier block the user may select an intermediary Email box address or may be given an intermediate Email address by the system.

[0068] In block 360, the user would then save this information and log off.

[0069] Referring now to Fig. 4, there is shown a preferred embodiment for one aspect of the present invention. Fig. 4 shows a description of the operation of the system by a sender who wishes to send an Email to another person by accessing a directory at the web site. In block 400, the sender accesses the directory at the web site by logging on to the web site service and selecting a directory feature. In block 402, the sender looks up the name for his desired recipient. In block 404, in a situation where there are multiple recipients with similar names, the user may access the description for a particular user to ensure that it is addressing the Email to the appropriate intermediary Email box. In block 406, the sender selects the appropriate recipient's name. Typically, this selection would be accomplished by clicking on the name. In block 408, the sender would then be presented via appropriate web content with a screen which describes the deposit requirement for normal routing to the intermediary Email box, as well as options (if

any) for Email enhancements or special routing (to be discussed below) and the required deposit amounts therefor, and acceptable payment mechanisms, and presents a set of buttons, or other appropriate means for the sender to Accept or Decline the deposit. If the sender declines the deposit requirement, then in block 410, the directory is exited.

[0070] In more detail, these Email enhancement in block 408 might include web content to provide a screen or other user interface for offering a method of alerting the recipient of the particular Email with an auditory and/or visual signal, which would be presented to the user at a convenient time, typically during processing of the user's Email. For example, program code could be added to cause an auditory beep or other sound or words to be made at a predetermined time to the user, and/or a highlighting of the Email visually, or the addition of words, or icons, or designs to indicate urgency for this particular Email. Alternatively or in addition, the Email could be ranked higher in the Email box so as to be read earlier than its receipt time would entitle it. Alternatively, or in addition, a selection screen could be presented to sender to route the Email additionally to or only to another Email receiving device, such as a hand-held device like a PDA or a cell phone, with or without auditory or visual enhancement. As noted above, additional deposits or different deposits may be required for adding one or more Email enhancements or for routing the Email to selected other devices, such as hand-held devices.

[0071] Alternatively, note that the present invention may also be set up to pass all Emails to the recipient, with enhancement of the Email or the routing of the Email to selected other devices only occurring if the requisite deposit is received.

[0072] If the sender accepts the deposit requirements by making the appropriate indications on his screen, then in block 412, the sender is presented by the appropriate web content, with a screen to provide account information for making payments of the deposit or providing an authorization to obtain a deposit.

[0073] In block 414, the sender then composes his/her Email and in block 416, the sender sends the Email which -- assuming that the deposit is sufficient -- is relayed to the Email inbox of the desired recipient. In the event that other mailing rights are authorized as the result of the deposit, such as routing the Email to the personal digital assistant or cell phone of the recipient or alerting the recipient with a visual or auditory signal, then in block 416 program code is added to facilitate at the appropriate time the particular action that has been authorized as a result of the deposit.

[0074] The operation of blocks 450, 460, 470, 480, and 490, may be substantially as described for Fig. 2.

[0075] Note that the option for enhanced Email described above for Fig. 4 may also be implemented for Fig. 2. It should be noted that the amount of the deposit may include a fee for the operation of the intermediary Email box system.

[0076] As noted earlier, the insurance deposit payment generally will be paid to the recipient in the event that he accepts the payment but that is not necessarily the case. The payment could also go to charity or to another third party on whose behalf the recipient could accept the deposit. The main purpose of the deposit is to deter senders of unwanted commercial Emails from using the directory.

[0077] As noted above, people are reluctant to publish their Email addresses in publicly available directories. In accordance with one embodiment of the present invention, individuals may publish a permanent or temporary "intermediary" Email address which is different from their primary Email inbox. Emails going to that intermediary inbox are forwarded to the recipient's primary Email address only if the sender insures the mailing with a deposit fee, at a threshold set by the recipient or the system and published with his/her Email address. The recipient can waive this fee at his/her option.

[0078] The directory aspect of the present invention can also be setup for the explicit purpose of inviting senders to pay for access to one's Email inbox. Prominent individuals and community leaders can make their Email inboxes (and by extension, themselves) available for a fee.

[0079] Another embodiment of the directory aspect of the present invention is that it allows mailing to an intermediary Email address even without a guarantee deposit but only for the purpose of requesting mailing rights and subject to strong restrictions regarding the amount of text in the message: The requestor can only give his name, a standard request for mailing rights itself and, possibly, a very limited number of words (probably not more than 3 to 5 words) that will help the recipient recognize the sender for those situations where the recipient does not recognize the sender by his/her name alone (for instance, "Schwab investment advisor met yesterday," would let the recipient know that the person requesting the mailing rights is the Schwab Corporation Investment Advisor whom he/she met at a party on October 30 and to whom he/she had expressed an interest in learning more about potential investments.) Such a request would be made in a pre-set format. This mechanism would allow non-spammers to make such requests for mailing rights while restricting the ability of spammers to use the directory to send commercial messages.

[0080] It should be noted that although the flow charts provided herein show a specific order of method steps, it is understood that the order of these steps may differ from what is depicted. Also two or more steps may be performed concurrently or with partial concurrence. Such variation will depend on the software and hardware systems chosen, and more generally, on



designer choice. It is understood that all such variations are within the scope of the invention. Likewise, software and web implementation of the present invention could be accomplished with standard programming techniques with rule based logic and/or other logic to accomplish the various database searching steps, correlation steps, comparison steps and decision steps. It should also be noted that the word "component" as used herein and in the claims is intended to encompass implementations using one or more lines of software code, and/or hardware implementations, and/or equipment for receiving manual inputs.

[0081] The foregoing description of a preferred embodiments of the invention has been presented for purposes of illustration and description. It is not intended to be exhaustive nor to limit the invention to the precise form disclosed, and modifications and variations are possible in light of the above teachings or may be acquired from practice of the invention. The embodiments were chosen and described in order to explain the principals of the invention and its practical application to enable one skilled in the art to utilize the invention in various embodiments and with various modifications as are suited to the particular use contemplated. It is intended that the scope of the invention be defined by the claims appended hereto, and their equivalents.

## WHAT IS CLAIMED IS:

1. An Email guarantee deposit method, comprising the steps of:  
receiving from a sender a request to send to a recipient an Email;  
receiving a deposit or an authorization to obtain a deposit of something of value;  
sending the Email to the recipient only if a deposit of authorization for a deposit is received;  
determining if the recipient has accepted the deposit; and  
if the recipient has accepted the deposit, then facilitating the disposal of the deposit.
2. The method as defined in claim 1, wherein the facilitating step includes the step of exercising the authorization to obtain the deposit.
3. The method as defined in claim 1, further comprising the step of maintaining a directory of Email addresses; and obtaining an Email address for the recipient from the directory
4. The method as defined in claim 1, further comprising the steps of:  
before the sending step, correlating the deposit with a threshold value set by the recipient; and  
only performing the sending step if the deposit equals or exceeds the threshold value set by the recipient.
5. An Email address access method, comprising the steps of:  
receiving from a sender a request to send to a recipient an Email;  
receiving a payment or an authorization to obtain a deposit of something of value;  
determining if the deposit equals or exceeds a threshold value; and  
if the payment equals or exceeds the threshold payment, then sending the Email to the recipient.
6. The method as defined in claim 5, wherein the determining step comprises the steps of correlating the deposit with a threshold value set by the recipient; and determining if the deposit equals or exceeds the threshold value set by the recipient.
7. The method as defined in claim 5, further comprising the step of sending at least part of the threshold payment to the recipient.

8. The method as defined in claim 5, further comprising the step of maintaining a directory of Email addresses; and  
obtaining an Email address for the recipient from the directory.
9. An Email guarantee deposit system, comprising:  
a component (220, 414) for receiving from a sender a request to send to a recipient an Email;  
a component (225, 408, 412) for receiving a deposit or an authorization to obtain a deposit of something of value;  
a component (240, 416) for sending the Email to the recipient only if a deposit of authorization for a deposit is received;  
a component (260, 460) for determining if the recipient has accepted the deposit;  
and  
a component (270, 470) for, if the recipient has accepted the deposit, then facilitating the disposal of the deposit.
10. An Email guarantee deposit method, comprising the steps of:  
receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other emphasis or to route the Email to designated type of device;  
receiving a deposit or an authorization to obtain a deposit of something of value;  
sending the Email to the recipient with such a visual or auditory signal or other emphasis or routing the Email to the designated type of device only if a deposit of authorization for a deposit is received;  
determining if the recipient has accepted the deposit; and  
if the recipient has accepted the deposit, then facilitating the disposal of the deposit.
11. The method as defined in claim 11, wherein the facilitating step includes the step of exercising the authorization to obtain the deposit.
12. The method as defined in claim 11, further comprising the step of maintaining a directory of Email addresses; and obtaining an Email address for the recipient from the directory.
13. The method as defined in claim 11, further comprising the steps of:  
before the sending step, correlating the deposit with a threshold value set by the recipient; and

only performing the sending step if the deposit equals or exceeds the threshold value set by the recipient.

14. An Email address access method, comprising the steps of:  
receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other emphasis or routed to a designated type of device;  
receiving a payment or an authorization to obtain a deposit of something of value;  
determining if the deposit equals or exceeds a threshold value; and  
if the payment equals or exceeds the threshold payment, then sending the Email with said signal or emphasis to the recipient.

15. The method as defined in claim 15, wherein the determining step comprises the steps of correlating the deposit with a threshold value set by the recipient; and determining if the deposit equals or exceeds the threshold value set by the recipient.

16. The method as defined in claim 15, further comprising the step of sending at least part of the threshold payment to the recipient.

17. The method as defined in claim 15, further comprising the step of maintaining a directory of Email addresses; and obtaining an Email address for the recipient from the directory

18. An Email guarantee deposit system, comprising:  
a component (220, 414) for receiving from a sender a request to send to a recipient an Email with a visual or auditory signal or with other visual emphasis or routing to a designated type of device;  
a component (225, 408, 412) for receiving a deposit or an authorization to obtain a deposit of something of value;  
a component (240, 416) for sending the Email with said visual or auditory signal or emphasis to the recipient or routing the Email to the designated device;  
a component (260, 460) for determining if the recipient has accepted the deposit;  
and  
a component (270, 470) for, if the recipient has accepted the deposit, then facilitating the disposal of the deposit.

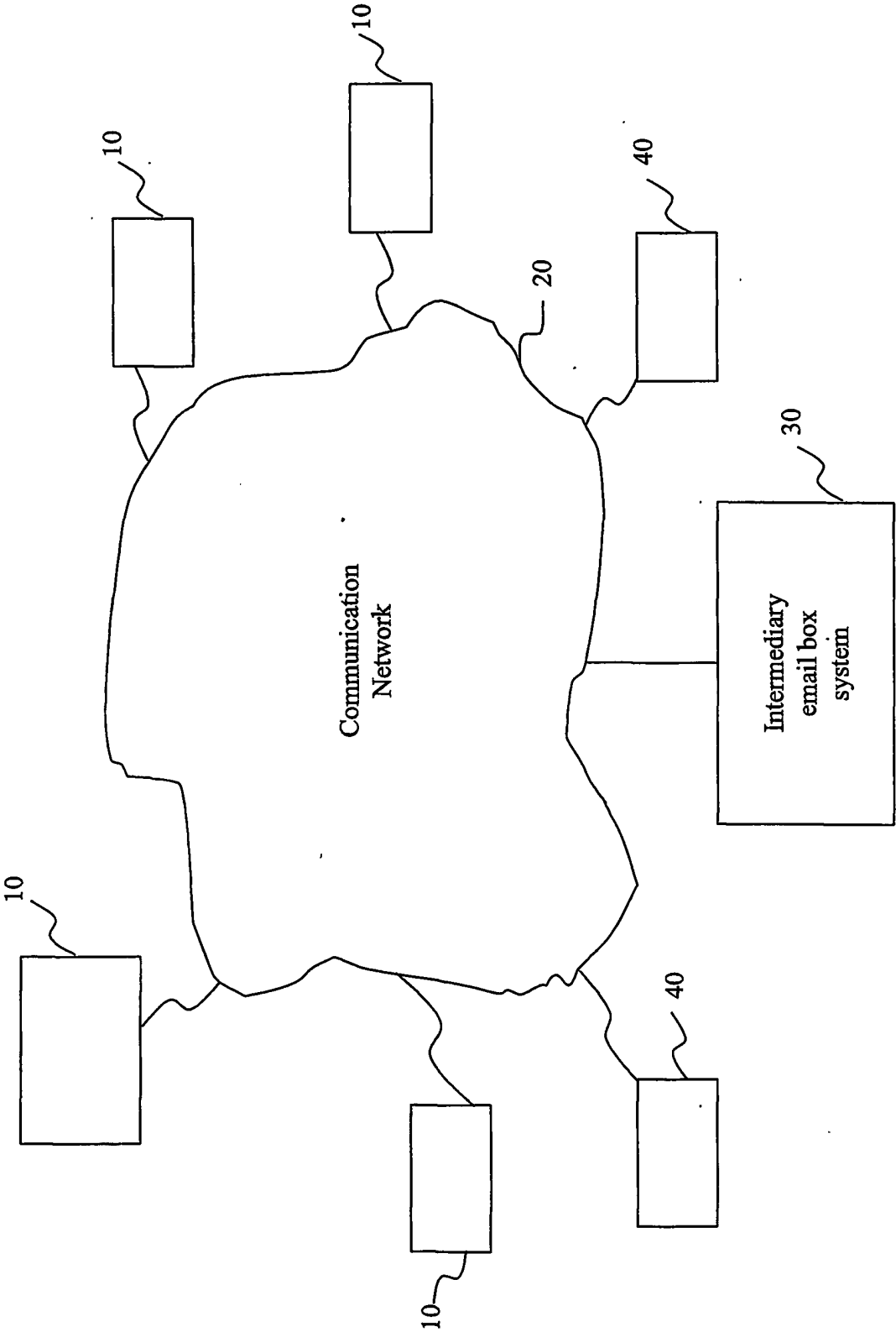


Fig. 1

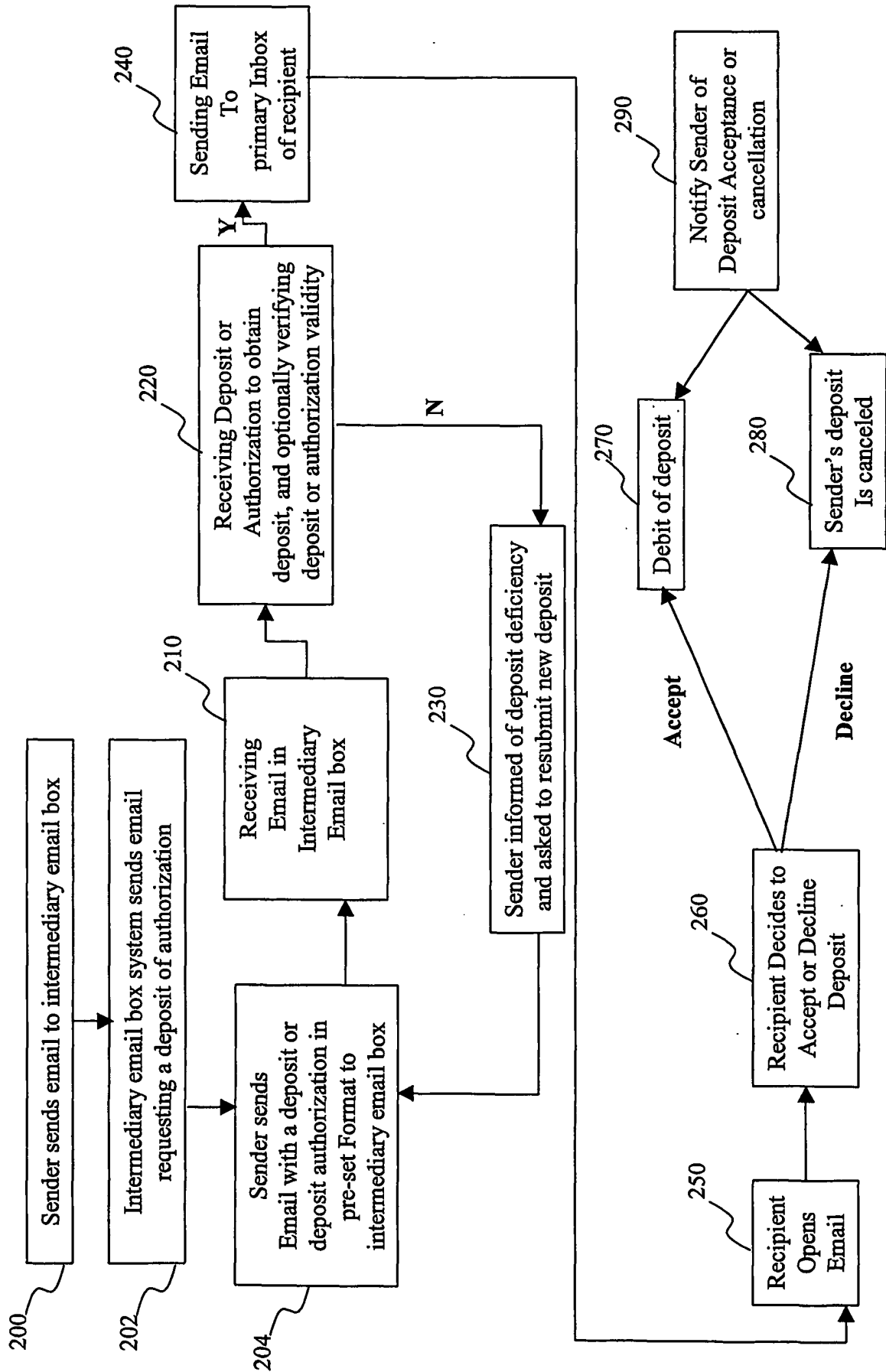


Fig. 2

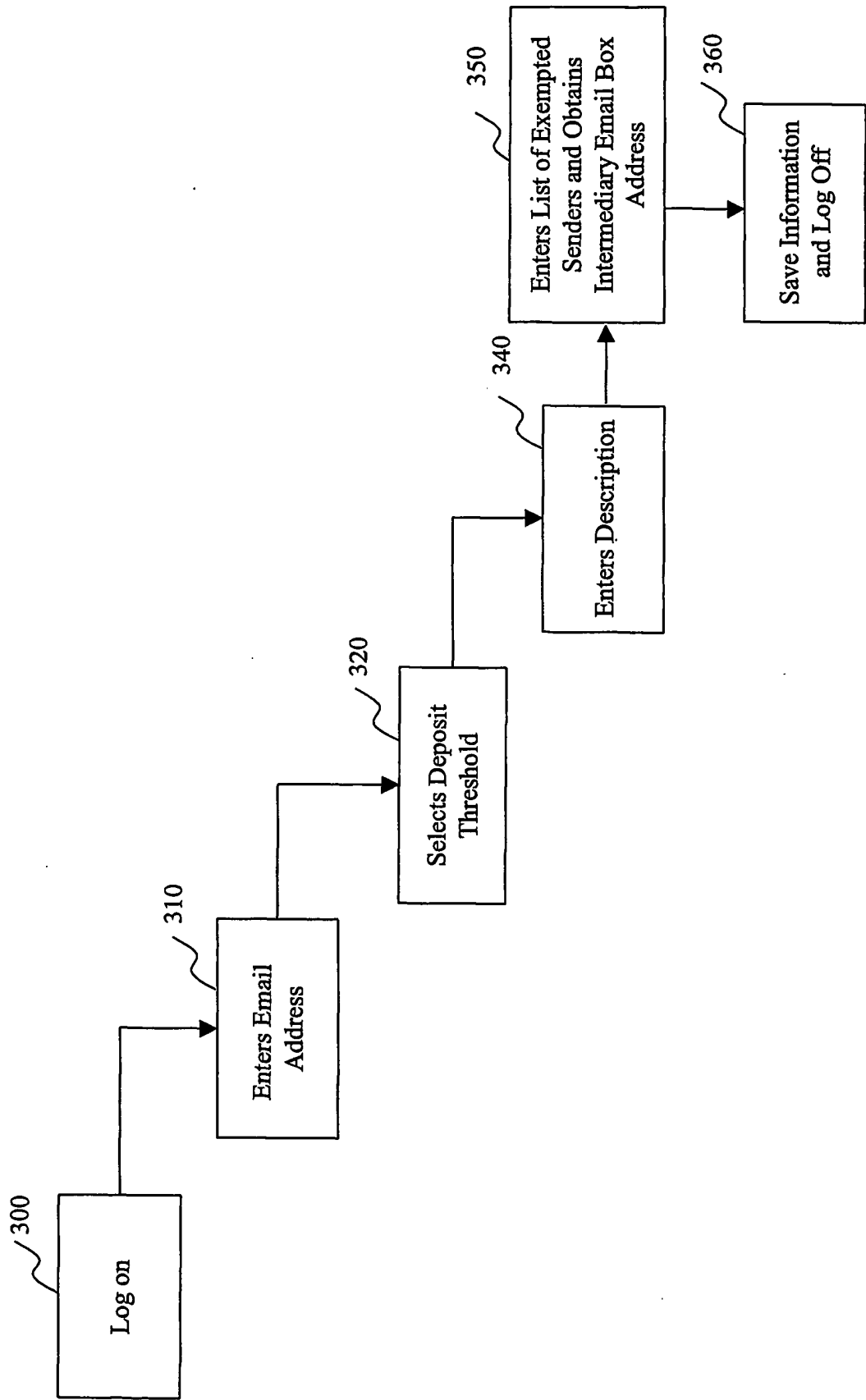


Fig. 3

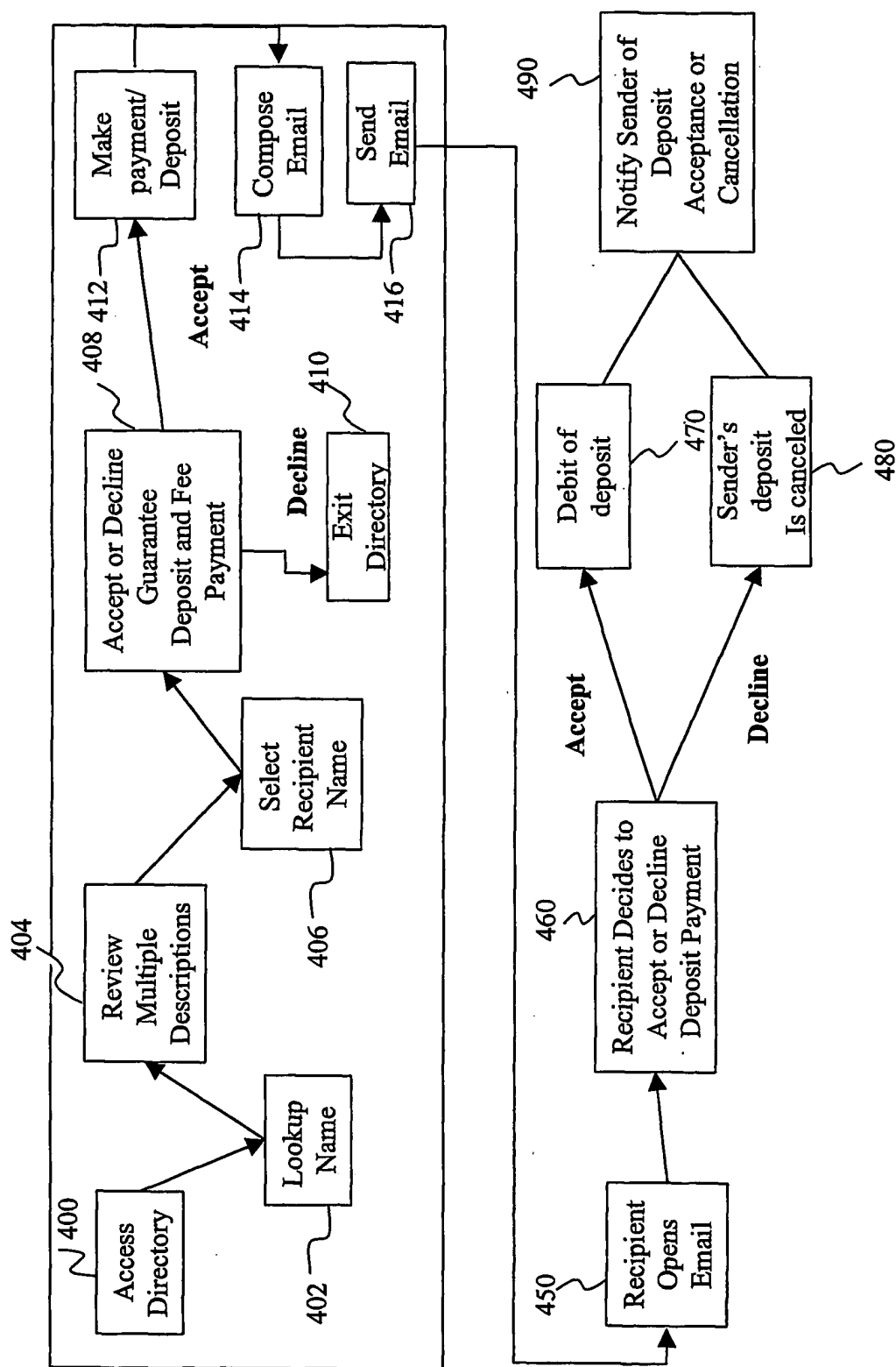


Fig. 4



## INTERNATIONAL SEARCH REPORT

International application No.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 17/60

US CL : 705/39, 14; 709/202, 206

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/39, 14; 709/202, 206

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST, DIALOG

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,999,967 A (SUNDSTED) 07 December 1999, col. 4, line 35 thru col. 11, line 30.	1-18
A	US 6,052,709 A (PAUL) 18 April 2000, entire document.	1-18
A, P	US 6,167,434 A (PANG) 26 December 2000, entire document.	1-18

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

14 JANUARY 2002

Date of mailing of the international search report

25 JAN 2002

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